

WHAT IS CLAIMED IS:

1. A glass, comprising:

a first glass phase consisting essentially of Si and O; and
a second glass phase consisting essentially of Si, Al and O, wherein
said second glass phase has a mass ratio of Al to Si of at least 0.01.

2. A plasma resistant component made of a glass, wherein
said glass comprises:

a first glass phase consisting essentially of Si and O; and
a second glass phase consisting essentially of Si, Al and O, wherein
said second glass phase has a mass ratio of Al to Si of at least 0.01.

3. A component, which is made of a glass and is for use in forming
an electromagnetic wave-transparent window, wherein

said glass comprises:

a first glass phase consisting essentially of Si and O; and
a second glass phase consisting essentially of Si, Al and O, wherein
said second glass phase has a mass ratio of Al to Si of at least 0.01.

4. A plasma processing apparatus for carrying out a process with
plasma generated by using an electromagnetic wave, comprising:

a component made of a glass, which is transparent to said
electromagnetic wave and is used for introducing said electromagnetic wave
into a chamber in which said plasma is generated, wherein

said glass comprises:

a first glass phase consisting essentially of Si and O; and
a second glass phase consisting essentially of Si, Al and O, wherein
said second glass phase has a mass ratio of Al to Si of at least 0.01.